

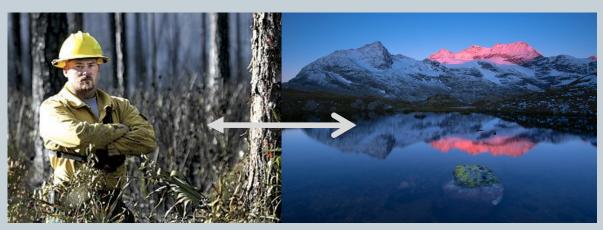
CVF - Background

- Slash Burning and Air Quality
- Open Burning Smoke Control Regulation (The Good and the Fair)
- Atmospheric Dispersion (Mixing Height and Wind)
- Environment Canada's Venting Index
- BVLD Airshed
 Management Plan
 identified a need for: The
 Custom Venting Forecast
 (CVF) Service



CVF Purpose

- Prevent episodes of poor air quality and associated impacts to human health by "closing burn opportunities" when the MSC venting index is too lenient.
- **Open up burn opportunities** when the MSC venting index is too strict, helping burn contractors to complete their burning within one season and thus reduce wild fire hazards.



The Custom Venting Forecast

An Example



File Number: 21590-05/CVF

MINISTRY OF ENVIRONMENT **Custom Venting Forecast**

Issued To: Balu Parmar Company: Bathmill Inc

Burn Registration Number(s): Permit

Issued:

December-07-08

Valid for Burning on

December-08-08

Lots: Prince Rupert Industrial Park		Lat:		Long:	Elevation:		Plies: continuous
		Venting:	Optimum Time:	Mixing Helg	ht ASL:	Wind:	•
	AM	Poor		Surface		Calm	
Monday	PM	Good	1PM - 3PM	Near 900 m		SE 10-15 km/h	
Tuesday		Good	1PM - 3PM	Near 1500 m		SSW 15 km/h	
Wednesday		Fair	1PM - 3PM	Near 1100m		S 5 km/h	

Current Air Quality Index:

	Burns Lake	Houston	Telkwa PM 2.5	Smithers	Kitimat	Terrace
PM10	5	11	N/A	25	8	13
PM2.5	3	11	15	34	22	15

Good: 0-25 Air Quality Categories: Fair: 26-50 (Based on PM10 values) Poor: 51-100 Very Poor: Over 101

Ministry of Environment

Environmental Protection Environmental Quality Section Air Quality Unit Mailing Address: Eag 5000 3726 Afred Ave. Godbee, EC VOJ 2NO

Gottes, SC Telephone: 250 847-7250 Facsimile: 250 847-7591

**Open Burning Restrictions in place: NO

Synopsis:

Another ridge of high pressure is followed by a warm front that will reach the north coast and western Interior on Monday afternoon. While this scenario will bring a very stable alignass and generally poor venting over the north and central interior, the warm front will bring several centimeters of snow to the interior overnight to Tuesday.

The front will move over the western sections of the central interior by Tuesday afternoon and improve venting with improved winds and better vertical mixing, but the east will not this improvement too late.

Arridge of high pressure will sneak right behind the frontal system on Wednesday over the north coast and into the central interior. While mixing heights will be acceptable, winds will diminish to almost nil. Another poor writer day.

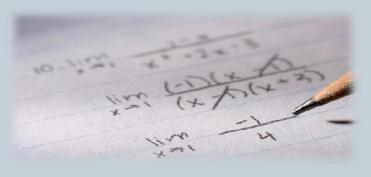
Confidence: Moderate.

M. Gramann

Uwe Gramann Air Resources Technician 250.847.7547

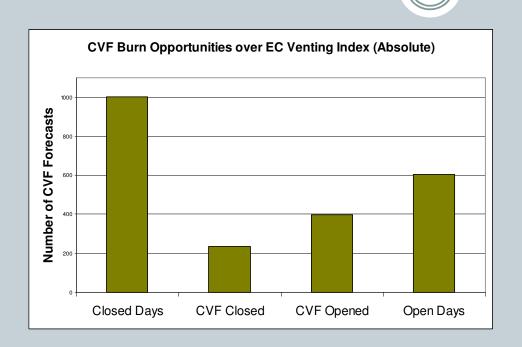
The 2008/09 CVF season in Numbers

Start Day of CVF	2008-09-28
End Day of CVF	2009-03-26
Total Number of CVF Issued	2242
Total Number of Days during which CVF were issued.	105
Number of piles burned by "Big 5"	22544
Number of burns by "Big 5"	584
Number of piles burned using CVF (only larger contractors	
submit burn numbers)	> 23539



Burn Opportunities and Restrictions

(Northern B.C. Interior)





	Number of CVF	Percentage
Closed Days (CVF and VI do not permit burning)	1003	44.7%
CVF Closed (EC permits, but CVF does not permit burning)	237	10.6%
CVF Opened (CVF permits, but EC does not permit burning)	397	17.7%
Open Days (CVF and VI do permit burning)	605	27.0%
Total:	2242	

Burn Opportunities and Restrictions

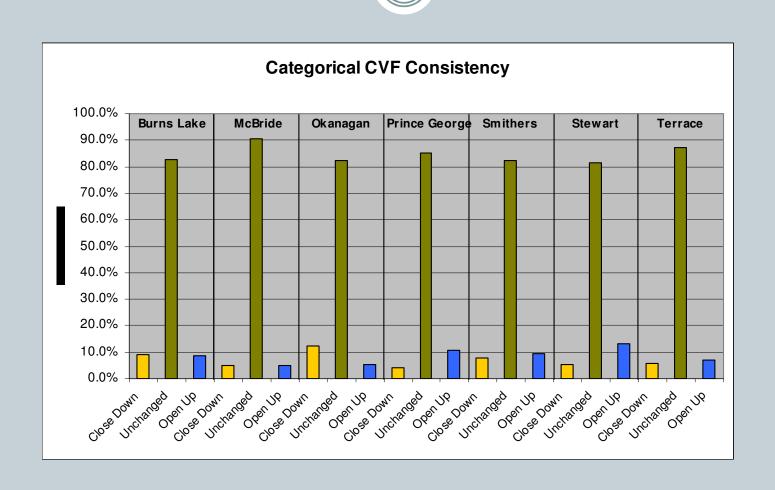
A Special Case: The B.C. North Coast





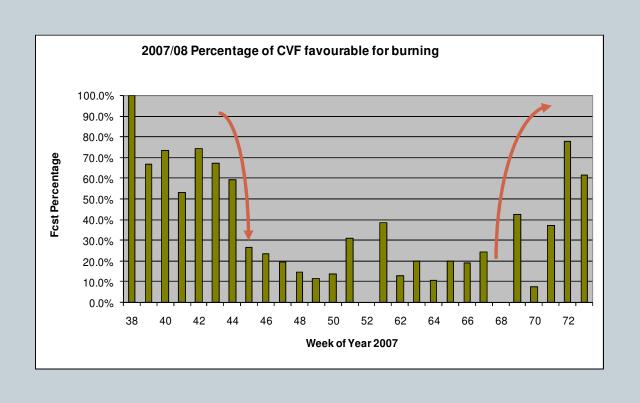
- Near 50% of days are closed.
- CVF has large impact on opening burn opportunities.
- Air-sheds are easily overloaded.

CVF Consistency

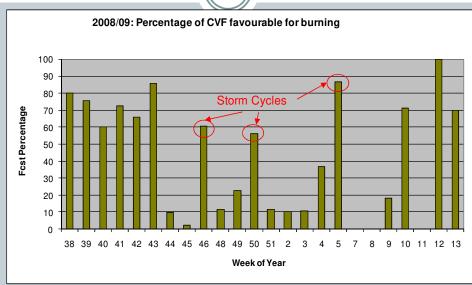


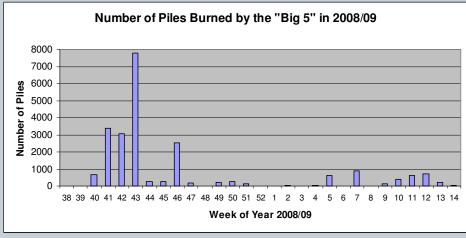
The Venting Doldrums

Mid November until Mid-March

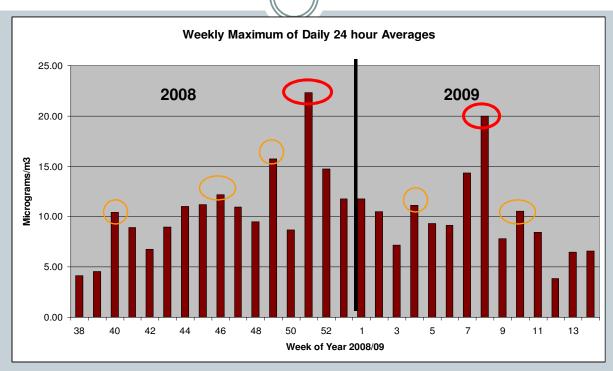


Venting and Burning



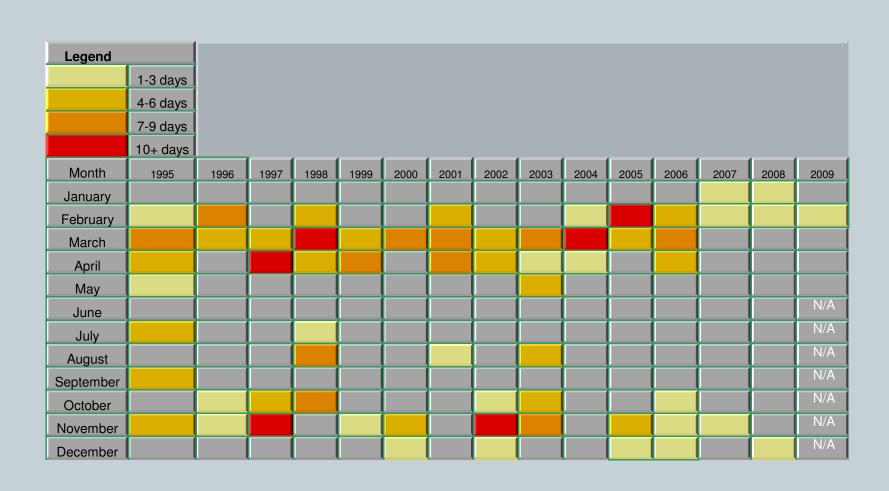


Air Quality - PM 2.5



Bulletin Issued	Date Valid	Week of Year	Remarks
Air Quality Advisory	December 15-16,2008	51	Mandatory Emission Reductions for , Smithers, ,Telkwa, Hazelton
Air Quality Advisory	December 18-20,2008	51	Mandatory Emission Reductions for , Smithers, ,Telkwa, Hazelton
Road Dust Bulletin	February 19-22, 2009	8	RDB issued for Smithers, , and Telkwa
Air Quality Advisory	February 19-21	8	Mandatory Emission Reductions for , Smithers, ,Telkwa,Hazelton
Road Dust Bulletin	March 10-13	11	RDB issued for Smithers, Burns Lake, Houston and Telkwa
Road Dust Bulletin	April 16-17	16	RDB issued for Burns Lake .

Air Quality Advisories





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